

Format No: CP/TF/01

## TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

**Lab ID** : CP-2020-05-04-04 **Date:** 19-03-20  
**Customer** : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.  
**Address** : Yelahanka Sub Division, BBMP, Bangalore.  
**Project Name** : Construction of RO Plant in Kempegowda Ward No:01 of Yelahanka Sub Division  
**Agency** : Sri. Veeranjanya, Sri Sai Vishal Ro Technologies, No:31, C94, Nimishamba Building 2nd Floor, Opp 10th BMTC Bus Depot ,K.K.Halli, Bangalore-560043  
**Customer's Reference** : EE/YNK.D/EPMT-16/W.O/256/2019-20  
**Source of Sample** : Sample supplied by Agency  
**Sample Condition** : Satisfactory  
**Date of Receipt** : 16-03-20  
**Sample Type/Size** : Solid concrete blocks size (400X150X200)mm  
**Reference to BIS codes** : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification  
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)  
**Date of test** : 16-03-20

### BLOCK DENSITY:

| Sl. No. | Measurement of overall Dimensions of Individual Blocks |         |        | Overall Volume of the Block in Cubic Centimetres | Weight of Oven Dried Block in Kilograms to the nearest 10 Gram | Block Density in Kg/cum*10 <sup>6</sup> | Avg.Block Density in (Kg/cum) | As per IS 2185(Part 1) :2005 (RA 2010) |
|---------|--------------------------------------------------------|---------|--------|--------------------------------------------------|----------------------------------------------------------------|-----------------------------------------|-------------------------------|----------------------------------------|
|         | Length                                                 | Breadth | Height |                                                  |                                                                |                                         |                               |                                        |
|         | mm                                                     | mm      | mm     | (Cm <sup>3</sup> )                               | Kg                                                             | Kg/m <sup>3</sup>                       | Kg/m <sup>3</sup>             |                                        |
| 1       | 405                                                    | 150     | 199    | 12089                                            | 33.254                                                         | 2750.7                                  | 2707.7                        | Not less than 1800Kg/m <sup>3</sup>    |
| 2       | 404                                                    | 153     | 202    | 12486                                            | 32.444                                                         | 2598.4                                  |                               |                                        |
| 3       | 401                                                    | 151     | 199    | 12050                                            | 33.426                                                         | 2774.0                                  |                               |                                        |

### WATER ABSORPTION:

| Sl. No. | Wet weight after water absorption | Dry weight (Oven dry) | Water Absorption | Avg. Water Absorption | As per IS 2185(Part 1):2005 (RA 2010) |
|---------|-----------------------------------|-----------------------|------------------|-----------------------|---------------------------------------|
|         | kg                                | kg                    | %                | %                     |                                       |
| 1       | 33.91                             | 32.25                 | 4.89             | 4.25                  | Shall not be more than 10% by mass    |
| 2       | 33.57                             | 32.14                 | 4.28             |                       |                                       |
| 3       | 33.44                             | 32.24                 | 3.59             |                       |                                       |

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